



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D5678-1
Job Sheet 203334

Accounting Job RD19-1069-01



Part No: D5678-1

Job Qty: 12 pcs

Part Name: Hex Nut



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 11/15/19

Job Tracking No:

Due Date: 11/29/19

Created By: Marie Lajeunesse

Type: R+D

Description:

Note: D5678-1 REV.A IPP REV.A NEW ISSUE 18/11/02 JFS VERIFIED BY:DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard Setup Run Hrs Hrs	Workcenter/Supplier	Lead Time	Sign-off
100	Purchasing	12	11/29/19	11/29/19	0.00 0.00	Purchasing - 1		
		pcs				Purchasing - 2		
						Purchasing - 3		
110	Packaging 2-1 - Receive - B4B	12	11/29/19	11/29/19	0.00 0.00	Packaging 2 - 1 - B4B		
		pcs				Packaging 2 - 2 - B4B		
						Packaging 2 - 3 - B4B		
						Packaging 2 - 5 - B4B		
						Packaging 2 - 4 - B4B		
						Packaging 2 - 6 - B4B		
						Packaging 2 - 7 - B4B		
						Packaging 2 - 8 - B4B		
						Packaging 2 - 9 - B4B		
						Packaging 2 - 10 - B4B		
						Packaging 2 - 11 - B4B		
						Packaging 2 - 12 - B4B		
						Packaging 2 - 13 - B4B		
						Packaging 2 - 14 - B4B		
						Packaging 2 - 15 - B4B		
						Packaging 2 - 16 - B4B		
						Packaging 2 - 17 - B4B		
						Packaging 2 - 18 - B4B		
						Packaging 2 - 19 - B4B		
						Packaging 2 - 20 - B4B		

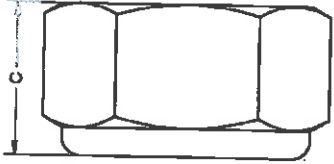
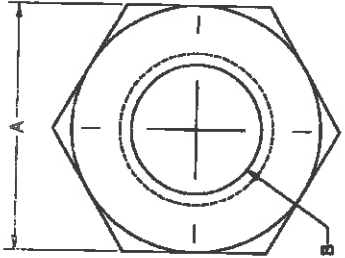
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			B4B	
			Packaging 2 - 21 - B4B	
			Packaging 2 - 22 - B4B	
			Packaging 2 - 23 - B4B	
			Packaging 2 - 24 - B4B	
			Packaging 2 - 25 - B4B	
			Packaging 2 - 26 - B4B	
			Packaging 2 - 27 - B4B	
			Packaging 2 - 28 - B4B	
			Packaging 2 - 29 - B4B	
			Packaging 2 - 30 - B4B	
			Packaging 2 - 31 - B4B	
			Packaging 2 - 32 - B4B	
			Packaging 2 - 33 - B4B	
			Packaging 2 - 34 - B4B	
			Packaging 2 - 35 - B4B	
			Packaging 2 - 36 - B4B	
120 QC 6	12 pcs	11/29/19	0.00 0.00	QC 6 - 9
			QC 6 - 68	DAS
			QC 6 - 61	NOV 27 2019 68
			QC 6 - 40	9-89
			QC 6 - 81	
130 Packaging 3-1 - Stock - B4B	12 pcs	11/29/19	0.00 0.00	Packaging 3 - 1 - B4B
			Packaging 3 - 2 - B4B	
			Packaging 3 - 3 - B4B	
			Packaging 3 - 4 - B4B	
			Packaging 3 - 5 - B4B	
			Packaging 3 - 6 - B4B	
			Packaging 3 - 7 - B4B	
			Packaging 3 - 8 - B4B	
			Packaging 3 - 9 - B4B	
			Packaging 3 - 10 - B4B	
			Packaging 3 - 11 - B4B	
			Packaging 3 - 12 - B4B	
			Packaging 3 - 13 - B4B	
			Packaging 3 - 14 - B4B	
			Packaging 3 - 15 - B4B	
			Packaging 3 - 16 - B4B	
			Packaging 3 - 17 - B4B	
			Plex 11/15/19 11:51 AM Dart.lajeunesse.marie	

				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	PC WAO-17
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
140 QC 21 - SA	12 pcs	11/29/19	0.00 0.00	QC 21 - SA - 21	DAS 21
				QC 21 - SA - 70	9-89
				QC 21 - SA - 53	NOV 7 8 2019
Part Op 100 - Issue P/O: _____ McMaster Carr Material release note required					
Descriptions: 110 - Receive & Inspect for Damage & Mat'l Certs					
120 - QC6- All purchased or subcontracted products					
130 - QC3- Inspect Part Finish Standard Process					
140 - QC21- Final Inspection - Work Order Release					
Job BOM					
Part / Item	Component Name	Quantity	Operation	Container	
93625A300	Locknut D5678-1	12 pcs (1 ea) 49	100-Purchasing	S232 852	
Job Allocations					
Operation	Component Part	Required	Inventory	Allocated	
100-Purchasing	93625A300	12	46	0	
Part Specifications					
Specifications could not be found.					

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SPECIFICATION CONTROL DRAWING



D5678-1 NUT

DART P/N	A	B	C	DESCRIPTION	WEIGHT	VENDOR	VENDOR P/N
D5678-1	0.61	1.83X1.25	0.32	HEX NUT, DIN 985 A2 OR A4 STAINLESS STEEL NYLON INSERT LOCKING	0.01 lbs	MCMASTER CARR	93825A300 (A2) 94205A260 (A4)
						ACKLANDS GRAINGER	FPBM51730.080.0001 (A2) FPBM55730.080.0001 (A4)

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RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 203374 MWS
19-11-15

NOTES:
1) MATERIAL: A2 OR A4 STAINLESS STEEL HEX NUT PER DIN 985
2) FINISH: NONE
3) TOLERANCES: PER DIN 985
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: N/A
6) IDENTIFICATION: IDENTIFY PER DART QSI 044 6.7
7) WEIGHT: SEE TABLE

RELEASED
2018 NOV 12
EON 16 537

A	NEW ISSUE	DATE	18.09.17
REV.	DESCRIPTION	BY	DATE
DESIGN	2F	2F	18.09.17
DRAWN	2F	2F	18.09.17
CHECKED	NO	NO	18.09.17
MFG. APPR.	NO	NO	18.09.17
APPROVED	NO	NO	18.09.17
DE APPR.	NO	NO	18.09.17
DATE	18.09.17	DATE	18.09.17
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. D5678			
REV. A			
SHEET 1 OF 1			
SCALE			
NTS			
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Entered: _____ Date: _____

NCR No. _____

WORK ORDER NON-CONFORMANCE / ROUTE UPDATE



Route update only ☐

Job: _____ Part No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐		DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐	
Date : _____	Sequence #: _____	QTY Affected : _____		MRB (QS1042)	
Description Work Order Deviation		Disposition			
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Other/Details: _____ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread ☐			



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER
POHB045116



Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

Attention: N/A,

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB045116
PO Date: 11/15/19
Due Date: 11/20/19
Purchase Order
Revision:
Revision Date: NOV 18 2019
Ship-To Contact: Lavoie, Chantal
Phone: 613-623-5200 Ext: 242
Fax: 613-632-1053
clavoie@dartaero.com

Via: Ground
Pymt Terms: Net 60
Freight Terms:
Special Comments:

Items													
Line Item	Job	Part	Drawing	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		2044T48		4 ft per pcs	Tube Ø1.36 receive ft	Firmed	-	11/20/19	8 ft	0 ft	8 ft	\$0.84/ft	\$6.72
Line Item Note: 2 pcs of 48"													
2		2044T68		25/pk	Cap Ø1.36 receive ea	Firmed	-	11/20/19	25 Ea	0 Ea	25 Ea	\$0.348/Ea	\$8.70
3		5232T243		1/pack	Standard Tee 1/4 NPT Tee Connector, 1/4 NPT Female 1/pack	Firmed	-	11/20/19	10 Ea	0 Ea	10 Ea	\$30.89/Ea	\$308.90
4		5232T313		1/pack	COUPLING 1/4 NPT TO 1/8 NPT Straight Reducer, 1/4 x 1/8 NPT Female	Firmed	-	11/20/19	10 Ea	0 Ea	10 Ea	\$6.67/Ea	\$66.70
5		5232T316		1/pack	Hex Nipple 1/4 NPT TO 1/4 NPT Precision Extreme- Pressure Steel Pipe Fitting 1/pack	Firmed	-	11/20/19	10 Ea	0 Ea	10 Ea	\$6.44/Ea	\$64.40
6		6852K11		1/pk	Squeeze Grip Valve Snap-Shut Threaded On/Off Valve 1/pack	Firmed	-	11/20/19	10 Ea	0 Ea	10 Ea	\$13.10/Ea	\$131.00



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PURCHASE ORDER
POHB045116



Items

Line Item	Job	Part	Drawing	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
7		8063K37		1/pack	BRASS VALVE 1/4 NPT MALE x SCHRDER AIR VALVE Air Fill Valve with 1/4 NPT Inlet 1/pack	Firmed	-	11/20/19	10 Ea	0 Ea	10 Ea	\$6.65/Ea	\$66.50
8		8NR-47		91259A729 1/pk	Shoulder Bolt 1/2" x 4 1/2"	Firmed	-	11/20/19	9 Ea	0 Ea	9 Ea	\$4.82/Ea	\$43.38
9		98023A031		50/pk	Yellow Zinc Plated Grade 8 Steel Washer 0.406" ID. X 0.812" OD. X 0.051"-0.080" THK.	Firmed	-	11/20/19	50 Ea	0 Ea	50 Ea	\$0.1288/Ea	\$6.44
10		MC1095S.032		9036K507	C1095 Blue Tempered Spring Steel Sheet .032 - MCMASTER P/N: 9036K507 X 2 PK MC1095S.032 BLUE FINISHED AND POLISHED 1095 SPRING STEEL .032 6" X 10' COIL receive sf	Firmed	-	11/20/19	10 sf	0 sf	10 sf	\$14.05/sf	\$140.50
2 rolls of 6" x 10 ft													
11	203337	5462K64		1/pk	Clamp	Firmed	-	11/20/19	6 Ea	0 Ea	6 Ea	\$12.88/Ea	\$77.28
12	203334	93625A300		50/pk	Locknut D5678-1	Firmed	-	11/20/19	50 pcs	0 pcs	50 pcs	\$0.1736/pcs	\$8.68
Grand Total:												\$929.20	

	Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200	PURCHASE ORDER POHB045116 
Order Notes Procurement Quality Clauses A005 RIGHT OF ENTRY A016 PERSONNEL QUALIFICATION A026 CERTIFICATION OF MATERIAL CONFORMANCE A032 DOCUMENT SPECIAL REQUIREMENTS A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS A040 NOTIFICATION OF QUALITY ESCAPE A041 QUALITY MANAGEMENT SYSTEM A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM A049 SUPPLIER AWARENESS Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.		

Plex 11/18/19 8:32 AM Dart.Lavoie.Chantal

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada
Attention: N/A

Purchase Order
POHB045116
Order Placed By
Chantal Lavoie
McMaster-Carr Number
5238393-02

Page 1 of 1
11/15/2019

Line	Product	Ordered	Shipped
2	2044T68 End Caps for 1.36" ID Round Cut-to-Length Shipping Tube, Packs of 25	1 Pack	1
3	5232T243 Precision Extreme-Pressure Steel Pipe Fitting, Tee Connector, 1/4 NPT Female	10 Each	10
4	5232T313 Precision Extreme-Pressure Steel Pipe Fitting, Straight Reducer, 1/4 x 1/8 NPT Female	10 Each	6
5	5232T316 Precision Extreme-Pressure Steel Pipe Fitting, Straight Connector, 1/4 NPT Male	10 Each	10
6	6852K11 Snap-Shut Threaded On/Off Valve for Water and Inert Gas, 1/4 NPT Female	10 Each	10
7	8063K37 Air Fill Valve with 1/4 NPT Inlet	10 Each	10
8	91259A729 Alloy Steel Shoulder Screw, 1/2" Shoulder Diameter, 4-1/4" Shoulder Length, 3/8"-16 Thread	9 Each	9
9	98023A031 Zinc Yellow-Chromate Plated Grade 8 Steel Washer for 3/8" Screw Size, 0.406" ID, 0.812" OD, Packs of 50	1 Pack	1
10	9036K507 Wear-Resistant 1095 Spring Steel, 0.0320" Thick, 6" Wide, 10 Feet Long	2 Each	2
11	5462K64 Tight-Seal Easy-Install Bolt Clamp for Soft Hose and Tube, 304 Stainless Steel, 3-9/16" to 3-13/16" ID	6 Each	6
12	93625A300 18-8 Stainless Steel Nylon-Insert Locknut, M8 x 1.25 mm Thread, Packs of 50	1 Pack	1

Shipped separately from our Chicago warehouse on 11/15

4	5232T313 Precision Extreme-Pressure Steel Pipe Fitting, Straight Reducer, 1/4 x 1/8 NPT Female	10 Each	4
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Certificate of compliance

This is to certify that the above items were supplied in accordance with the description and as illustrated in the catalog. Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.

Sarah Weinberg
Compliance Manager